

Fusion-1008

Nine-in-one Integrated Processor



Intelligent controller



video switching matrix



Digital audio processing



Audio digital power amplifier



POE Switch



video Conference



Recording



Input/output interface



IPC input

PRODUCT OVERVIEW

The **Fusion-1008** is a cutting-edge 9-in-1 integrated processor designed for high-performance multimedia environments. Developed with advanced engineering principles, the Fusion-1008 combines multiple functionalities into a single compact platform, streamlining installation and enhancing operational efficiency.

Its versatile feature set makes it an ideal solution for smart classrooms, multimedia conference rooms, lecture halls, and multi-purpose venues. Whether it's for local meetings, remote collaboration, live streaming, training, or interactive teaching, the Fusion-1008 supports a wide range of usage scenarios with reliability and precision.

KEY FEATURES

- **Smart Centralized Control:** Integrated control of multimedia equipment via a conference tablet, enabling unified management of audio/video, conferencing, recording, broadcasting, and third-party peripherals.
- **Standard Control Interfaces:** Supports RS232/485, IR, IO, and RELAY connections for common AV and automation devices.
- **Zigbee IoT Protocol:** Enables wireless control of smart devices through Zigbee integration.
- **Bi-directional Serial Communication:** Supports two-way control over a single serial link for seamless device interaction.
- **Hybrid Control Design:** Combines wired and wireless IoT control, preventing interference and disconnection even in shielded environments.
- **4K Video Matrix Switching:** 4-in 2-out seamless 4K@60Hz video switching for fast and clear AV transitions.
- **Digital Audio Interface:** Features 8-in/4-out configuration with network and HDMI audio routing.
- **Built-in Amplifier:** Delivers 2×100W output power for direct speaker drive.
- **Multi-Stream Local Recording:** Records 4–6 video streams simultaneously for meetings, training, or lectures.
- **IPC Camera Integration:** Supports up to 12 IPC video inputs for live output, display, or recording.

APPLICATIONS

- Meeting Room
- Courtrooms
- Hotels
- Conference Center
- Classrooms
- Lecture Halls
- House of Worship
- Training Rooms
- All Hand Space

TECHNICAL SPECIFICATIONS

System Specifications

Control Panel Options	10.1" Android wired touchscreen (no PoE) 10.1" PoE desktop touchscreen 10.1" PoE wall-mount touchscreen (w/ box)
Codec Rate	Max 16 channels of 1080P, 512 Kbps - 16 Mbps per channel
Video Conference	SIP & H.323 point-to-point & multiparty
Distributed System Integration	Supports input/output interface machine mode, Supports Android, iOS, HarmonyOS, Windows, Kylin
Distributed Expansion	HDMI input/output sharing across nodes, Large-screen splicing Multiscreen combination per HDMI output
Network Interface	1 × WAN, 5 × LAN (4 PoE-enabled)
Network Communication	4-channel audio mixing/playback
Data Interface	2 × USB Type-A, 1 × USB Type-B
Internal Storage	Standard: 2TB surveillance HDD (3.5"), Expandable to 12TB via USB

Technical Specifications

Video Codec	Supports up to 4K@60 encoding/decoding Up to 4 channels 1080P@60 encoding / 4 channels 1080P@60 decoding Or 8 channels 1080P@30 encoding / 8 channels 1080P@30 decoding
Audio & Video Protocols	Audio: G.711, G.722, G.722.1, G.722.1C, AAC Video: H.264 HP/MP/BP, H.265 MP
Video Input	4 × HDMI (IN1 & IN3 support up to 4K30, IN2 & IN4 up to 1080P60) 16 × IP network camera inputs
Video Output	2 × HDMI (OUT1 & OUT2 support up to 4K30)
Audio Input	8-way Phoenix terminals (MIC 48V or Line-in) 4-way HDMI embedded audio input
Audio Output	4 × Line out (or 2 pairs of L/R Phoenix terminals) 2 × 100W @ 8Ω digital amp output (or 2 × 150W @ 4Ω) 2 × HDMI embedded audio output Volume adjustment, audio sync and mixing supported
Audio Processing	AEC, AGC, ANC/ANS, AFC, AM, PLC
Video Processing	Resolution adaptation, screen splitting (1 to 16 windows), subtitle and terminal name overlay, station logo display with adjustable transparency and position
Display Terminal	Supports multiple split modes: 1-16 windows
Push Stream	Supports at least 8 simultaneous live stream platforms
Live Streaming	Up to 10-channel multicast supported
Recording Function	Up to 4 local recording streams or 1 × 4K video stream File format: MP4 USB support: auto-copy, system upgrade, restore, recording file management
Central Control	3 × RS-232/485, 1 × RS232/RS485 DEBUG 2 × RELAY, 2 × I/O, 2 × IR
Mixing Function	Supports local, HDMI, and RTSP audio mixing

Mechanical Specifications

Installation	1U standard telecom cabinet
Dimensions	436.8 mm (W) × 45 mm (H) × 318 mm (D)
Power Input	AC 100-240V, 50/60Hz
Power Consumption	40W (no speakers/PoE devices)
Operating Conditions	Temperature: 0-45°C Humidity: 10%-90% Altitude: ≤ 5000 meters

Rear View

